



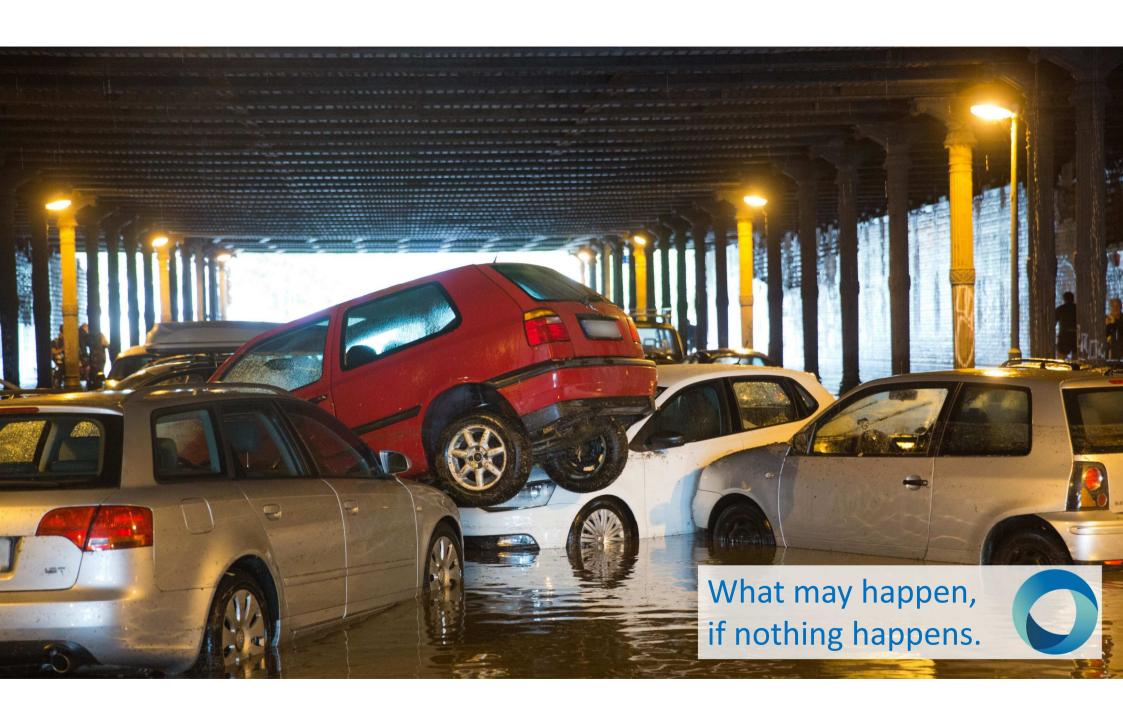
Agora Verkehrswende – Transforming Transportation

Who we are.



Picture: Greenpeace

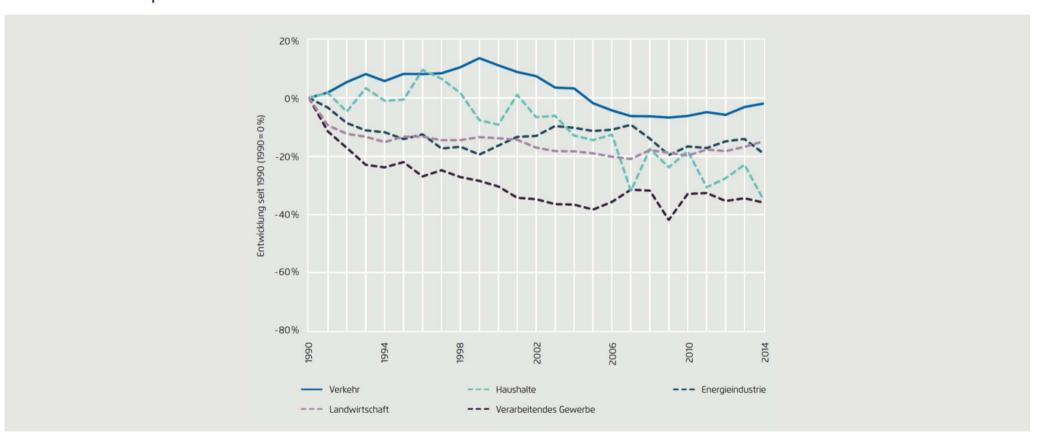
- → Initiative by Stiftung Mercator and European Climate Foundation
- → Independent Think Tank and high-level
 Council of Agora
- → Mission: Scenarios, Discourse and Strategies for the Decarbonisation of Transport until 2050
- → Focus: starting with national land-based transport in Germany in an European context



In the past 25 years the Transport Sector in Germany could not contribute to CO₂ Emission Reductions.



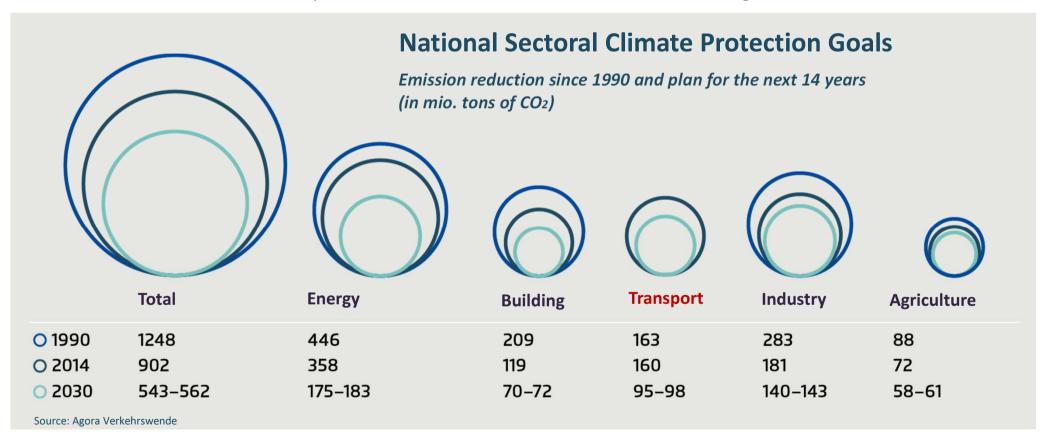
Relative Development of Greenhouse Gas Emissions for different Sectors since 1990



Federal Climate Protection Plan 2050: The *Verkehrswende* is an official goal of the Government.



For the first time ever the German transport sector has an own ambitious emission reduction target.



The ,Verkehrswende 2050' will be enabled by the Mobility Transition and the Energy Transition in Transport.



VERKEHRSWENDE

The **Verkehrswende** enables the German transport sector to be carbon neutral by 2050.



MOBILITÄTSWENDE

The **Mobility Transition** reduces the energy consumption of the German transport sector based on Avoid, Shift and Improve.



ENERGIEWENDE IM VERKEHR

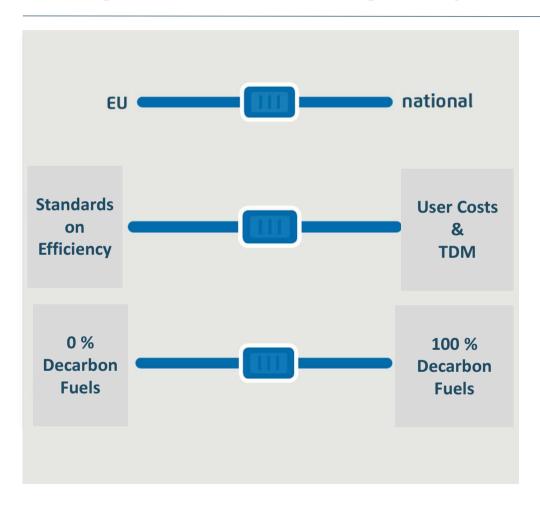
The **Energy Transition in Transport** covers the remaining energy demand of the German transport sector with renewable energy.

Source: Agora Verkehrswende.





Strategies for Decarbonising Transport

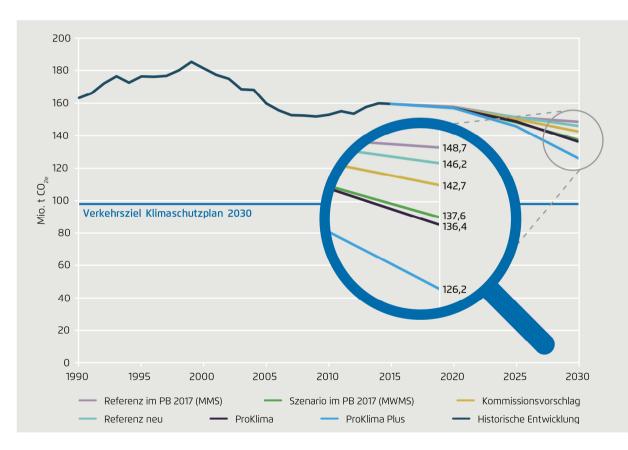


3 Strategies to Decarbonise Transport:

- Efficiency (Electrification)
- User Costs & TDM (Avoid and Shift)
- Decarbonisation of Fuels

The relevance of the Post-2020 CO₂-Regulation for LDV for the Climate Protection Goals for Transport in Germany 2030



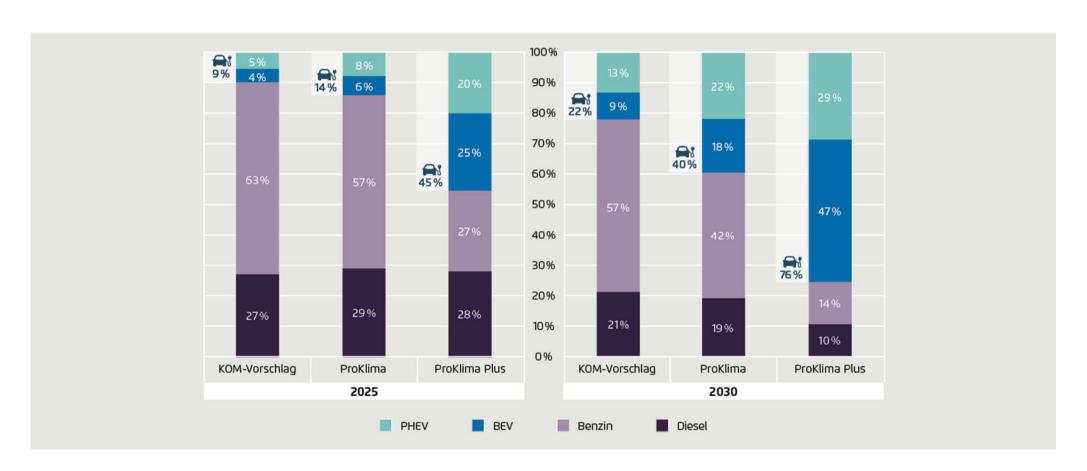


- The KOM proposal reduces CO₂ from LDV only by 3,5 Mio. t.
- With the KOM proposal the distance to target 2030 remains 45 Mio. t CO₂
- With more ambitious targets the reduction may reach 10 to 20 mio. t.

Source: Agora Verkehrswende (2018), p. 6

Shares of newly sold Passenger Cars 2025/2030 as consequence of different Post-2020 CO₂-Regulations





Source: Agora Verkehrswende (2018), S.8



Ambitious CO2 targets would be backed by carmaker's goals.

Anouncements of OEMs for the share of Electric Vehicles in future sales.



In 2017, we aim to sell 100,000 electrified vehicles, and by 2025, electric models and plug-in hybrids are expected to account for around 15 to 25 per cent of our sales.



CEO Oliver Blume now says that he expects **50 percent** of Porsche's production to be electric by **2023**.



The Volkswagen Group forecasts that its own BEV sales will be between two and **three million units** in **2025**, equivalent to some **20 to 25 percent** of the total unit sales expected at that time.



Nissan Motor Co. expects that zeroemission cars will make up to 20 percent of its sales in Europe by 2020.



Forecast of Daimler: **15 to 25 percent** of the total unit sales of Mercedes-Benz will be electrified models **by 2025**



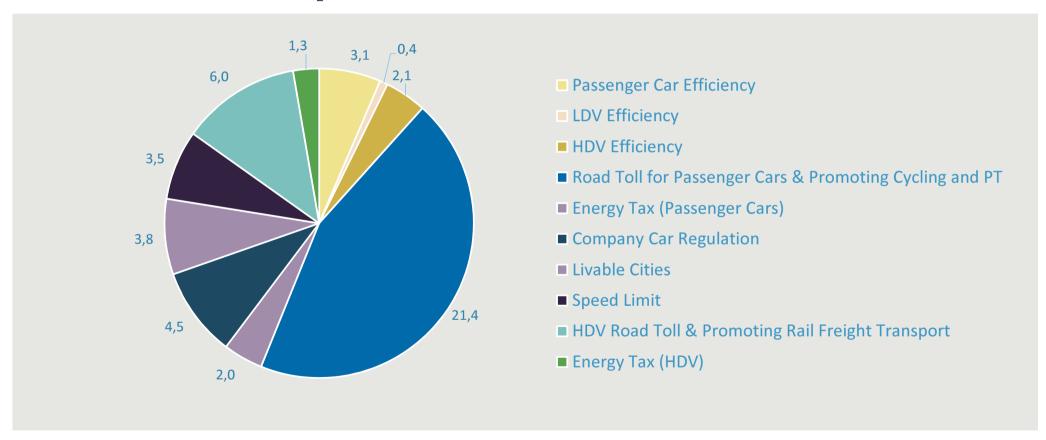
Honda set a global target for **two-thirds** of all sales to come from electrified models by **2030** and to halve its total company CO2 emissions from 2000 levels by 2050.

Source: Car Manufacturers 11

GHG Emission Reduction Scenario "User Costs & Transport Demand Management" (Avoid & Sift)



Emission Reduction in Mio. t CO₂

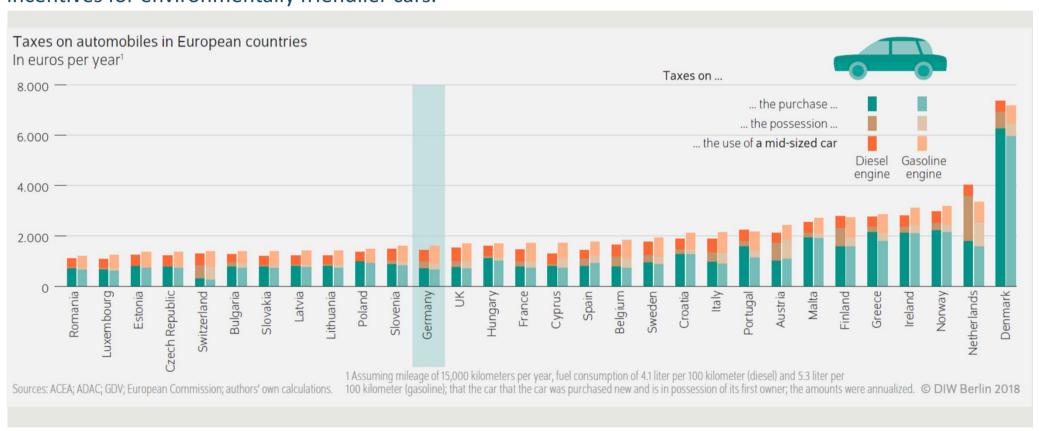


Source: Agora Verkehrswende 2018.

Germany is in the lower third in terms of overall passenger car taxes in Europe.

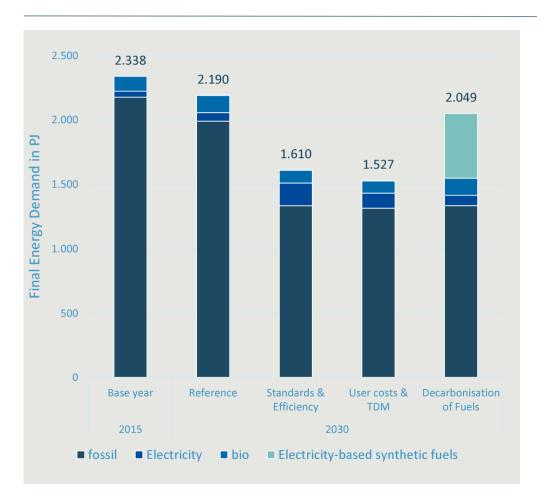


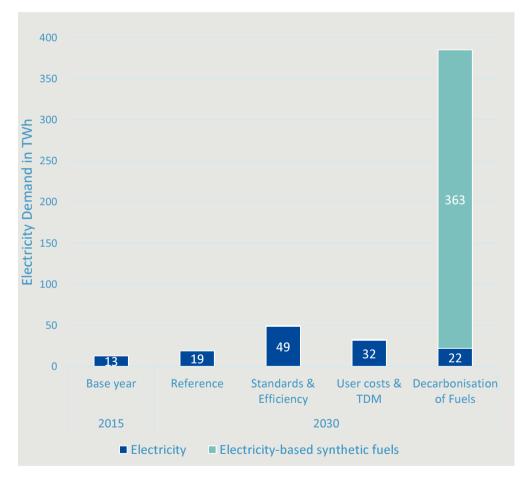
The German system in need for reform: tex revenues is stagnating although the number of cars is rising; few incentives for environmentally friendlier cars.



Final Energy and Electricity Demand of Transportation in different Climate Action Scenarios for Germany





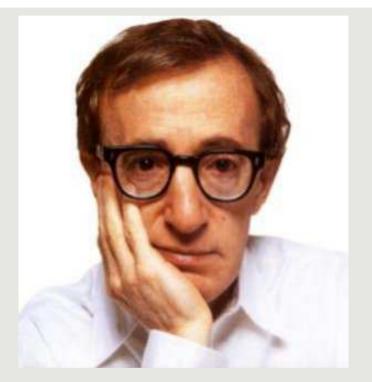


Source: Agora Verkehrswende based on the research of Öko-Institut, not published yet.



Will we succeed in Decarbonizing Transportation until 2050?

"Confidence is what you have before you understand the problem." – Woody Allen



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Thank you very much for your attention!

Comments or Questions? – Please do not hesitate to contact me:

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Agora Verkehrswende is a joint initiative of Stiftung Mercator Foundation and the European Climate Foundation (ECF).